

GREGOROWICZ, Zbigniew; STOCH, Jerzy

Indirect mercurometric determination of sulfites. Chem anal 7 no.4:741-748 '62.

1. Department of Sanitary Chemistry, Politechnic, Gliwice,
and Department of Analytical Chemistry, Normal School,
Katowice.

GREGOROWICZ, Zbigniew, doc. dr. inz.; STOCH, Jerzy, mgr., st. asystent

Polish research on microelements. Wiad chem 16 no. 4:213-225 Ap 62.

1. Kierownik Katedry Chemii Sanitarnej, Politechnika Śląska, Gliwice, i
Kierownik Zakładu Chemii Analitycznej, Wyższa Szkoła Pedagogiczna,
Katowice (for Gregorowicz). 2. Zakład Chemii Analitycznej, Wyższa
Szkoła Pedagogiczna, Katowice (for Stoch).

GREGOROWICZ, Zbigniew, Dr.Ing. (Gliwice, Konarskiego 13/6, Poland); BUHL,
Franciszek (Gliwice, Konarskiego 13/6, Poland)

New applications of redox indicators in the indirect analysis of
anions. Acta chimica Hung 32 no.2:145-149 '62.

1. Institut für Allgemeine Chemie der Schlesischen Technischen
Hochschule, Gliwice, und der Analytischen Anstalt der Peda-
gischen Hochschule, Katowice, Poland.

BUHL, Franciszek; GILGOMIĘDZ, Zbigniew

Determination of traces of cupric ions with variamine blue.
Chem anal 8 no.4:511-515 '63.

1. Department of Sanitary Chemistry, Polytechnic College,
Gliwice, and department of Analytical Chemistry, Pedagogical
School, Katowice.

POLAND

GRGOROWICZ, Zbigniew, doc. dr inz.; KOWALSKI, Stanislaw, mgr.;
SZALONEK, Irena, mgr.

Department of Sanitary Chemistry, Politechnika Gliwice
Research Department of the Upper-Silesian Industrial
Center, Polish Academy of Sciences, (Katedra Chemii
Sanitarnej Politechniki Slaskiej, Gliwice. Zaklad Badan
Naukowych Gornoslaskiego Okregu Przemyslowego Polskiej
Akademii Nauk), Zabrze. (for all).

Warsaw, Chemia analityczna, No 5, September-October 1965,
pp 889-894.

"Determination of fluorine in plant material."

POLAND

GREGOROWICZ, Zbigniew, doc. dr; KULICKA, Joanna, mgr inz; KARMIŃSKI, Władysław, dr inz.

1. Department of Sanitary Chemistry (Katedra Chemii Sanitarnej) (for Gregorowicz and Kulicka); 2. Department of Organic Technology (Katedra Technologii Chemicznej Organicznej) (for Karminski). Polytechnic, Silesia, Gliwice (Politechniki Śląskiej, Gliwice) - (for all).

Warsaw, Chemia analityczna, No 6, November-December 1965, pp 1347-1351.

"Thin-layer chromatographic analysis of some pyridine derivatives."

GREGOR Jiri MUDr.

Premature delivery in textile industry. Cesk. gyn. 22/36
no.1-2:133-136 Feb 57.

1. Gyn. por. odd. OUMZ As. Prednosta prim. MUDr. Jiri Gregor.
(DELIVERY, statist.
premature in textile indust. (Cz))
(INDUSTRIAL HYGIENE
premature delivery in textile indust. (Cz))

GREGOR, Vratislav

Chemie a technologie drozdarstvi. (Chemistry and Technology of the Yeast Industry; a university textbook. 1st ed. illus., bibl.) For the students of the Faculty of Food Technology. Prague, SNTL, 1957. 295 p.

Bibliograficky katalog, CSR, Ceske knihy, No. 36. 15 Oct 57. p. 789-90.

COUNTRY	: CZECHOSLOVAKIA
CATEGORY	: Chemical Technology. Chemical Products and Their Applications. Fermentation Industry
ABS. JOUR.	: RZKhim., No. 23 1959, No. 83787
AUTHOR	: Gregr, V.; Dyr, J.
INST.	:
TITLE	: Improvements of the Technological Process of Lactic Acid Manufacture from Molasses
ORIG. PUB.	: Sb. Vysoke skoly chem.-technol. Praze, Odd. Fak. potravin. Technol., 1957, [1], 177-195
ABSTRACT	: Based on special studies on the improvement of mother culture preparation methods involving lactic bacteria and on the establishment of optimum conditions of their nutrition, an accelerated method of conducting process on a commercial scale has been developed. It insures increase in the productivity of the fermentation department by 100% at the simultaneous economy of malt sprouts, malt, autolyse, phosphates and sulfuric acid and improvement in quality of the lactic acid.
CARD:	1/1

H - 103

Chen, Y.; Barta, J.; Polivac, I.

Purification of waste water from the production of citric acid by sulfide
fermentation. p. 235.
(COL. 41, p. 1, Sept. 1947, French, "Technologie du vin.")

Q: Monthly List of First European Accesions (WI) 1A, Vol. 1, no. 12, Dec. 1947.
Uncl.

COUNTRY:	: Czechoslovakia
CATEGORY:	: Chemical Technology. Chemical Products and Their Applications--Fermentation industry.
ABS. JOUR.:	: RZhim., No.22 1959, No. 80058
AUTHOR:	: Gregg, V. : Prague Chemical Engineering School : Increasing the Yield of Brewers Yeast. I. Selection and Introduction of New Yeast Strains
ORIG. PUB.:	: Sb Vysoke Skoly Chem-Technol Praze Odd Fak Potravin Technol, 2, 267-314 (1958)
ABSTRACT:	: Laboratory and production tests on strain No 1 of <i>Saccharomyces cerevisiae</i> Hansen var tropicus have given 94.6% yields of pressed brewers yeast from molasses, corresponding to a yield of 47.34% of dry yeast solids on a sugar basis. <small>From author's summary</small>
CARD#:	1/1

GREGR, V.; HAVLIKova, D.; STREJCHYR, V.

Ileofemoral thrombophlebitis in children. Cesk. pediat. 13 no.9:769-775
5 Oct 58.

1. III. detska klinika KU, prednosta prof. Dr. O. Vychytil.
(THROMBOPHLEBITIS, in inf. & child
ileofemoral, case reports (Cz))
(VEINS, FEMORAL, dis.
ileofemoral thrombophlebitis in child., case reports (Cz))
(ILEUM, blood supply
same)

TESARIKOVA, L.; SUDA, M.; RICNY, D.; RUZIK WA, H.; KUBES, V.; JURKO, A.;
GREGR, V.; BOUCHALOVA, M.

Reactivity of children with rheumatic fever during the course
of the year. Fysiat. vestn. 43 no.2:83-91 Mr '65

1. II. detska klinika (prednosta - prof. dr. M.Toman), katedra
zdravotnictvi (vedouci - prof. dr. A. Zacek) lekarske fakulty
University J.E.Purkyne v Brne; Detske lecelsny pro reumatiky a
kardiaky v Hludove, Podebrad 'h, Sliaci a Teplice n.b.
(vedouci - MUDr. V. Kubes, MUDr. V. Gregr; MUDr. J. Kozacek a
MUDr. L. Tesarikova).

HOMOLEA, J.; GREGR, V., RŮZICKOVÁ, M.

Rheumatic fever in childhood with chronically increased biochemical activity as a special form of the course of the disease. Česk. pediat.
20 no.9:775-780 S '65.

1. Detska lazenna lecenna chorob ustroji obehového v Ledečkách
(vedoucí MUDr. V. Gregr) a Ustředni laborator fakultní polikliniky
v Praze (vedouci prof. dr. J. Kosolka, DrSc.).

PUSTOVÁ, H.; GRMGR, V.

Diacetyl-pyrocatechic acid in the after-treatment of rheumatic fever. Fysiol. vestn. 43 no. 6:364-367 D ' 65.

I. Dotska: Imae oka lecobna chorob ustreji obehovuho, Podebrady.

GREGOR, Vratislav, doc. inz. dr sc.

Problems and methods of treating sewage in the yeast industry.
Przem ferment i rol 8 no.2:40-44 F '65.

1. Higher School of Chemical Technology, Prague.

GREGROVÁ, E.

[Effect of placenta praevia on premature labor] Placenta praevia
a její vliv na predčasny porod. Česk.gyn. 15 no.1-2:70-77 '50.
(CIML 19:1)

1. Of the Third Obstetric-Gynecological Clinic of Charles University,
Prague (Head -- Prof. Trapl, M.D.).

GREGROVA E.

Indications for cesarean section. Cesk. gyn. 15:4-5 1950.
p. 365-74

1. Of the Third Gynecological and Obstetrical Clinic (Head --
Prof. Jiri Trapl, M. D.), Charles University, Prague.

CLNL 19, 5, Nov. 1950

GREGROVA, E.

Infant mortality in breech presentation delivered by the Bracht's
method. Cesk.gyn. 15 no.11:792-802 1950. (CIML 20:6)

1. Of the Third Obstetric-Gynecological Clinic (Head--Prof. Trapl,
M.D.), Charles University in Prague.

~~GRE~~GROVA,Emmanuela; ~~SEB~~EK,Tibor

Effect of diathermo-coagulation of the cervix uteri on bacterial
picture of the vagina. Cesk. gyn. 25[39] no.1/2:122-124 Mr'60.

1. II. gyn.-per. klinika MU, prednosta prof. MUDr. J. Lukas,Dr. Sc.
(ELECTROCOAGULATION)
(CERVIX UTERI surg.)
(VAGINA microbiol.)

PRAZIC, M.; SALAJ, B.; SUBOTIC, R.; GREGURIC, M.

Audiologic analysis of conditions in a textile mill. Arh.
hig. rada. 14:207-221 '63.

1. Audiolski centar Otorinolaringoloske klinike Medicinskog
fakuleta u Zagrebu.

GREGULA, Pavol, promovany geolog

Geological interpretation of the results of geophysical measurements in the Mnisek nad Hnilcom area. Geol pruzkum 7 no.2:39-42 F '65.

1. Geologicky prieskum National Enterprise, Zilina, Branch Enterprise in Spisska Nova Ves.

PRAZIC, Mihajlo, dr.; GREGURIC, Miroslav, ing.; SALAJ, Boris, dr.;
SUBOTIC, Radovan, dr.

Individual protection against damaging effect of industrial
noise. Lijecn. vjesn. 87 no.4:409-418 Ap '65.

GREGUS, C.

"A contribution to the solution of the problem of mapping a complex forestry project."

p. 116 (Les) Vol. 12, no. 3, Mar. 1956
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

GREG'S, C.

"Methods of control in our forestry."

p. 344 (Les) Vol. 12, no. 7/8, July/Aug. 1956
Prague, Czechoslovakia

so: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

CHESKUS, C.

The graphic and mathematical methods of evaluating aerial photographs by Professor Visnovsky. p. 244.

LESNICKY CASOPIS. (Slovenska akademia vied) Bratislava, Czechoslovakia,
Vol. 5, no. 3/4, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

GREGUS, Ctibor

Yield index of an undergrowth forest derived from
rejuvenation periods. Les cas 8 no.2:103-114 '62.

1. Ustav pre hospodarsku upravu Lipsov, Zilina.

GREGUS, Ctibor, inz.

Proposal of a cutting plan in shelterwood forests. Les cas
9 no.4/5:475-477 '63.

1. Ustatav pre hospedarsku upravu lesov, Zilina.

GREGUS, J.

"Progress in the Mechanization and Increase of Productivity in the Vineyards of Slovakia."
p. 965 (ZA SOCIALISTICKE ZEMEDELSTVI, Vol. 3, No. 9, Sept. 1953) Praha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4,
April 1954. Unclassified.

GREGUS, Julius, MUDr.

Fight of health service against accidents. Pracovni lek.
7 no.3:171-172 May 55.

1. Kraj. poist. lekar SOR, Spiska Nova Ves.
(ACCIDENTS, prevention and control
in indust., role of health serv.)
(INDUSTRIAL HYGIENE
accid. prev., role of health serv.)

GREGUS, M.

"A contribution to the organization of preparatory and outside work in the complex forest management."

p. 342 (Les) Vol. 12, no. 7/8, July/Aug. 1956
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1, 1958

~~MICHAL, GREGUS, M.~~

On Some Connections Among Integrals of Reciprocally "Adjungierten" Linear Differential
Equations of the Third Order and on a Boundary Value Problem

¹ Greguš, Michal Über einige Zusammenhänge zwischen
der Integralen der gegenseitig adjungierten linearen Dif-
ferentialgleichungen der dritten Ordnung und über ein
Randwertproblem. Acta Fac. Nat. Univ. Comenian.
Math. 1 (1956), 265-272. (Slovak, Russian and German
summaries)

2
1-FIU.

HORN, A.

"Application of Dispersion to Second-Order "orderin; Problems." p. 27,
(MATEMATICKO-FYZIKALNY CASOPIS, Vol. 4, No. 1, 1954, Bratislava, Czechoslovakia,

Su: Monthly List of East European Accessions, (EEL), EC, Vol. 4
No. 5, May 1955, Uncl.

GREGUS, MITCHAL

Gregus, Michal. On some properties of the solutions of a homogeneous linear differential equation of the third order. Mat.-Fyz. Casopis Slovensk. Akad. Vied 5 (1955), 73-85. (Slovak. Russian summary)

The author shows first that the integrals of the equation $y''' + 2A(x)y' + [A'(x) + b(x)]y = 0$ for which $y(a) = 0$ are the solutions of a certain linear differential equation of second order; similarly for those integrals for which $y'(a) = 0$ or $y''(a) = 0$. For these classes of integrals certain results are proved, in particular the following theorem: If $A = A(x, \lambda) > 0$, $A' = \partial A(x, \lambda)/\partial x$, $b = b(x, \lambda) > 0$ are continuous in $-\infty < x < \infty$, $\Lambda_1 < \lambda < \Lambda_2$, and A is increasing in λ , $A(x, \lambda) \rightarrow \infty$ as $\lambda \rightarrow \Lambda_2$, and $a < b < c$, then the above equation has infinitely many solutions $y_n, y_{n+1}, \dots, y_{n+p}, \dots, y_{n+p}(a) = y_{n+p}(b) = y_{n+p}(c) = 0$, belonging to the parameter values $\lambda_n, \lambda_{n+1}, \dots, \lambda_{n+p}, \dots$ which converge to Λ_2 . The solution y_{n+p} has exactly $n+p$ zeros in (b, c) .

M. Golomb (Lafayette, Ind.).

Gregus, M.

Some new aspects of solving the differential equation $y''' + Qy' + Q'y=0$. p. 237.

Bratislava. Univerzita. Prirodovedecka fakulta. Si'ISY Brno, Czechoslovakia.
No. 365, 1955.

Monthly List of East European Accessions, (EFAI) LC, Vol. 8, no. 10, 1959. -Oct.
Uncl.

The Differential Equation of the Third Order $y''' + 2Ay' + (A^2 + b)y = 0$ With All
Oscillatory Solutions 10

Greguš, M. Die Differentialgleichung der dritten Ordnung $y''' + 2Ay' + (A^2 + b)y = 0$, mit allen oszillatorischen Lösungen. Acta Fac. Nat. Univ. Comenian. Math. I (1956), 41-47. (Czech, Russian and German summaries)

2
I-FIW

In dieser Arbeit wird das Problem gelöst, unter welchen Bedingungen jede Lösung der Differentialgleichung

$$y''' + 2Ay' + (A^2 + b)y = 0$$

im Intervall $(-\infty, \infty)$ unendlich viele Nullstellen hat.

Aus der Zusammenfassung des Autors

12
Greguš, Michal. Über einige neue Randwertprobleme einer Differentialgleichung dritter Ordnung. Czechoslovak Math. J. 7(82) (1957), 41-47. (Russian. German summary)

Der Verfasser beschäftigt sich mit den Eigenwertaufgaben bei der Differentialgleichung $y''' + A(x,\lambda)y' + [A'(x,\lambda) + b(x,\lambda)]y = 0$. Er betrachtet fünf Typen von Randbedingungen: (1) $y(a) = y'(a) = y(b) = 0$; (2) $y(a) = y'(a) = y'(b) = 0$; (3) $y(a) = y(b) = y'(c) = 0$; (4) $y(a) = y'(b) = y(c) = 0$; (5) $y(a) = y'(b) = y'(c) = 0$, wo $a < b < c$. Unter gewissen Bedingungen über die Koeffizienten $A(x,\lambda)$ und $b(x,\lambda)$ beweist er mit Hilfe eines Oszillationssatzes von Sansone [Univ. Nac. Tucumán. Rev. A. 6 (1948), 195-253; MR 10, 300] die Existenz unendlich vieler reeller Eigenwerte und charakterisiert die zugehörigen Eigenfunktionen durch die Anzahl ihrer Nullstellen im Intervall $\langle a, b \rangle$, bzw. $\langle b, c \rangle$.

M. Zlámal (Brno)

good
On Certain New Boundary Value Problems, of a
Third Order Differential Equation

On the Linear Differential Equation of the Third Order With Constant Coefficients

Grguľ, M. Über die lineare Differentialgleichung der dritten Ordnung mit konstanten Koeffizienten. Acta Fac. Nat. Univ. Comenian. Math. 2 (1957), 61-66. (Slovak. Russian and German summaries) 2
I-F\W

In dieser Arbeit behandelt man einige Eigenschaften der Lösungen der linearen Differentialgleichung dritter Ordnung mit konstanten Koeffizienten der Form:

(a) $y''' + 2Ay' + \Omega y = 0$

und die Eigenschaften der Lösungen der zu ihr adjunktiven:

(b) $z''' + 2Az' - \Omega z = 0,$

dabei sind $A > 0, \Omega > 0$ Konstanten.

Im zweiten Teil wird die Existenz der Eigenwerten für die Differentialgleichung (a) und für die Randwertaufgabe

$y(x_0-d, \lambda) = y(x_0, \lambda) = y''(x_0, \lambda) = 0$

durchgeführt, wo $x_0 \in (-\infty, \infty)$, $d > 0$ konstante Zahlen sind. Dabei $A = A(\lambda)$, $\Omega = \Omega(\lambda)$ bedeuten für $\lambda \in (\Lambda_1, \Lambda_2)$ stetige Funktionen mit bestimmten Eigenschaften.

Zusammenfassung des Autors

The Homogeneous Boundary Value Problem for the Solution of a Linear Differential Equation of the Third Order [6]

Greguš, M. Das homogene Randwertproblem für die Lösungen einer linearen Differentialgleichung dritter Ordnung. Acta Fac. Nat. Univ. Comenian. Math. 2 (1958), 219-228. (Slovak. Russian and German summaries)

In der Arbeit sind zwei Randwertprobleme für die Lösungen der Differentialgleichung

$$y''' + 2A(x, \lambda)y' + [A'(x, \lambda) + b(x, \lambda)]y = 0$$

gelöst.

Aus der Zusammenfassung des Autors

2

I-FIW

16 2405

37587
S/044/62/000/004/023/099
C111/C444

AUTHOR: Gregus, M.

TITLE: Homogeneous boundary value problems for a linear differential equation of third order

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 33, 34,
Abstract 4B151. (Acta Fac. rerum natur. Univ. Comenianae
Math., 1956, 2, no. 5 - 6, 219 - 228)

TEXT: One solves boundary value problems for the differential
equation
$$y''' + 2A(x, \lambda)y' + [A'(x, \lambda) + b(x, \lambda)]y = 0 \quad (1)$$
I. One supposes that $A(x, \lambda) > 0$, $\frac{\partial A(x, \lambda)}{\partial x}$ and $b(x, \lambda) \geq 0$ are continuous with respect to $x \in (-\infty, \infty)$ and $\lambda \in (\Lambda_1, \Lambda_2)$.
For (1) the boundary value problem
 $y(a, \lambda) = 0,$
 $\alpha_1(\lambda)y(b, \lambda) - \alpha(\lambda)y'(b, \lambda) = 0,$
 $\beta_1(\lambda)y(c, \lambda) - \beta(\lambda)y'(c, \lambda) = 0.$

Card 1/2

S/044/62/000/004/023/099
C111/C444

Homogeneous boundary value problems...

is solved.

II. One supposes that $A(x, \lambda)$ increases in $\lambda \in (\Lambda_1, \Lambda_2)$;

$\lim_{\Lambda \rightarrow \Lambda_2} A(x, \lambda) = +\infty$ for every $x \in (-\infty, \infty)$; $b(x, \lambda) \neq 0$ for every sub-

interval for $x \in (-\infty, \infty)$.

For (1) the boundary value problem

$$A_1(\lambda)y(a, \lambda) + A_2(\lambda)y'(a, \lambda) + A_3(\lambda)y''(a, \lambda) = 0,$$

$$B_1(\lambda)y(b, \lambda) + B_2(\lambda)y'(b, \lambda) + B_3(\lambda)y''(b, \lambda) = 0,$$

$$C_1(\lambda)y(c, \lambda) + C_2(\lambda)y'(c, \lambda) + C_3(\lambda)y''(c, \lambda) = 0,$$

is solved, where $a < b < c$. The solution follows by aid of the oscillation theorem of Sansone, G. (Revista math. y fis. theorica; 1948, Ser. A., Tuckman. 195), and it relies on the properties of the family of the solutions of the equation (1) (RZhMat; 1956, 5227).

[Abstracter's note: Complete translation.]

Card 2/2

400

S/044/62/000/005/015/072
C111/C333

AUTHOR: Grajus, M.
TITLE: On some properties of the solutions of the third order
linear differential equation
PERIODICAL: Referativnyj zhurnal, Matematika, no. 5, 1962, 53,
abstract 5B247. ("2ème congr. math. hongrois, Budapest,
1960". Budapest, 1961, IIIIa/57-59)
TEXT: The differential equation

$$y''' + 2Ay' + (A' + B)y = 0 \quad (1)$$

is considered. A number of theorems on the oscillation properties of the
solutions and on the boundary value problems for (1) are formulated
with-out proofs. If $a(x) \leq 0$, $A' \geq 0$, $b \geq 0$, then every solution of (1)
has at least two zeros on $(-\infty, \infty)$. For the case where the coefficients
of (1) depend on a parameter λ , the author gives a condition for the
existence of enumerable many λ values for which the problem $y(a) = y(b) =$
 $= y(c) = 0$ has a non-trivial solution.
[Abstracter's note: Complete translation.]

Card 1/1

vB

GREGUS, M.

On some properties of the solutions of a differential equation
of the third order. Acta r nat Univ Com 7 no.11:585-595 '63.

1. Katedra matematiky prirodovedeckej fakulty, Univerzita
Komenskeho, Bratislava, Smeralova 2.

GREGUS, M.

Remarks on insoluble boundary problem of the third order.
Acta r nat Univ Com 7 no.12:639-647 '63.

1. Katedra matematiky, Univerzita Komenskeho, Bratislava,
Smeralova 2.

GREGUS, M., doc. dr. CSc.

On the boundary value problem of the nth order in m points. Acta
r nat Univ Com 9 no.11:49-55 '64.

1. Chair of Mathematical Analysis of the Faculty of Natural Sciences
of Comenius University, Bratislava, Smeralova 2/a.

OREOUS, Michal

On the generalized boundary problems of the n^{th} order. Cas pro
pest mat 89 no.1:85-89 F '64.

1. J.A Comenius University, Bratislava, Smeralova 2. Submitted
November 10, 1962.

86352
S/046/60/006/004/001/022
B019/B056

24.1800

AUTHORS: Gregush, A., Gregush, P.

TITLE: The Effect of Ultrasonics Upon the Catalytic Properties of MnO₂ Gels and Suspensions

PERIODICAL: Akusticheskiy zhurnal, 1960, Vol. 6, No. 4, pp. 441 - 445

TEXT: In the experiments carried out here, the authors used a barium titanate emitter, which operated with a natural frequency of 875 kc/sec.

The intensity in the focus was about 150 watt/cm². An investigation was made of the effect of MnO₂ suspensions and gels upon the decay of H₂O₂ in an irradiation with an intense ultrasonics. The MnO₂ concentration was such that exactly 50 cm³ of oxygen were formed from 20 cm³ H₂O₂ at 25°C. The decay rate of H₂O₂ was measured by means of an experimental system consisting of a piston with the catalyst, a water tank, a H₂O₂ container, a mixing motor, a mixer with a mercury seal, a gas burette, and a thermostat.

Card 1/3

The Effect of Ultrasonics Upon the Catalytic Properties of MnO₂ Gels and Suspensions 86352
S/046/60/006/004/001/022
B019/B056

From the results obtained the authors recognized that in ultrasonic irradiation, the decay of H₂O₂ is more intense initially than without irradiation, but this intensity becomes weaker later, and the decay of the entire H₂O₂ in all cases takes the same time. It further follows from the results obtained that the decay rate has an upper limit, which is caused either by specific sound-induced chemical reactions or which is a colloidal effect. If ΔV is understood to stand for the difference between the oxygen volume formed under the effect of ultrasonics and the oxygen volume formed without ultrasonics, the experimental data for the suspension may be well described by $\Delta V = A_1 t^{b1} e^{-0.233t}$ and for gel by $\Delta V = A_2 t^{b2} e^{-0.533t}$. The course taken by these curves has considerable similarity with that of adsorption curves. As further concluded by the authors, the change in the catalyst effect of the MnO₂ gels and suspensions is due to a coagulating effect of ultrasonics. The authors thank Professor A. Buzagh for raising the problem and Docent Volfram for his assistance. There are 7 figures and 4 references: 2 Soviet, 1 Hungarian, and 1 German.

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Card 2/3

The Effect of Ultrasonics Upon the Catalytic Properties of MnO₂ Gels and Suspensions

86382
S/046/60/006/004/001/022
B019/B056

ASSOCIATION: Laboratoriya ul'trazvuka Instituta zh.-d. transporta
Budapest (Laboratory of Ultrasonics of the Institute of Railroad Engineers, Budapest)

SUBMITTED: February 10, 1960

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Card 3/3

GREGUSH, P. (Vengerskaya Narodnaya Respublika)

Silicified tree trunk from the lower Eocene of the Volga
Basin. Paleont. zhur. no.3:134-137 '59.

(MIRA 13:4)

(Volga Valley--Sequoia, Fossil)

GREGUSH, P. [Greguss, Pal]; FILIN, V.R.[translator]; CHISTYAKOVA, O.N.[translator]; DANIL'CHENKO, O.P., red.; MUKHINA, L.V., tekhn. red.

[A guide to the wood analysis of gymnosperms based on microscopic data] Opredelitel' drevesiny golosemennykh po mikroskopicheskim priznakam. Moskva, Izd-vo Mosk. univ. 1963. 183 p. Translated from (MIRA 16:11) the Hungarian.

(Wood--Anatomy) (Gymnosperms)

HNILICA, Lubomir; GREGUSOVA, Veronika; THURZO, Viliam

Electrophoresis of a calf thymus histone, labeled with radioiodine,
in vitro in buffers containing urea. Biologia 15 no.10:776-779
'60. (EEAI 10:5)

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(RADIOISOTOPES) (IODINE) (BUFFER SUBSTANCES)

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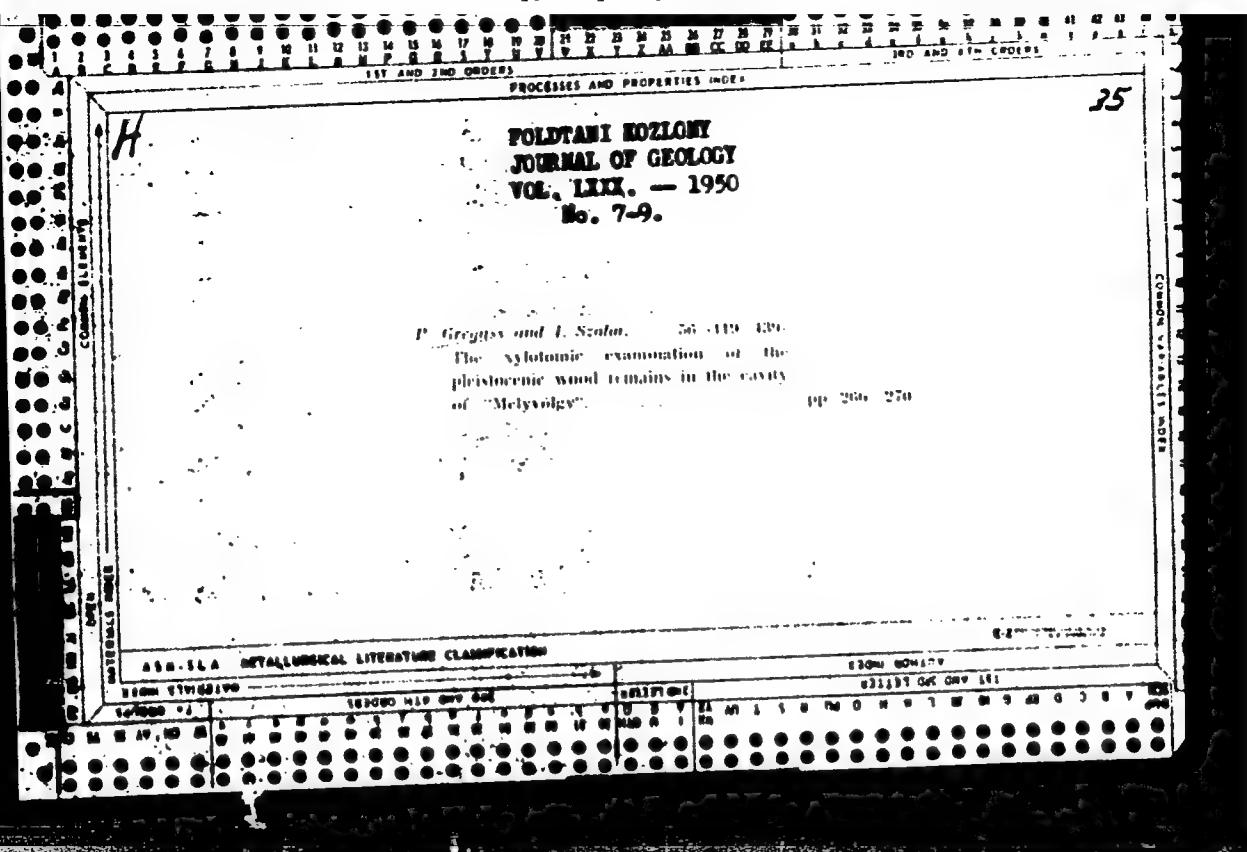
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(BLOOD VOLUME)



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1. Head, Ultrasonic Laboratory, Railroad Scientific Research
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Technika 9 no.4:3 Ap '65.

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1. Institute of Botany Attila Jozsef University, Szeged.
Submitted March 8, 1962.

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12

33. The recovery of cement dust from kiln chimneys by acoustic means --
Szallo cementpor visszanyerese akusztikus uton -- by T. Tarnoczy and P. Greguss
Jr. (Hungarian Engineering -- Magyar Technika -- No. 5, pp. 21-25, May 1951,
4 figs, 1 tab.)

Large quantities of clinker dust are carried away through the chimneys of drying of kilns in cement manufacturing works. This dust not only jeopardizes the health of factory workers and the population of the area, it also endangers buildings by settling on roofs and, moreover means a substantial loss in clinker dust. To a certain extent heat losses also must be taken into account, since the hot air, if freed from dust, can be utilized in production. Unsuccessful experiments had been made to recover the dust by electrostatic methods, however, a supersonic process, devised by Brandt, Freund and Hiedemann in 1936, had proved more successful. By this process, cigarette smoke and oil vapours were subjected to mechanical vibrations generated by a magnetostriction-type ultrasonic generator which resulted in orthokinetic coagulation. On the basis of several other experiments, dealt with in detail, the daily amount of 6 tons of deposited dust could be raised threefold, i.e. to approx. 18 tons at the Tatabanya Cement Works by applying a Hartmann gas flow generator into the chimneys at several angles. The acoustic efficiency of this generator was

(over)

T. TARNOCZY

6.8 per cent and achieved the above results with advancing waves of 0.12
W per sq. cm intensity. The article describes the experiments and computations
and also give comprehensive tables of the results.

GREGUSS, P., JR.

Possibility of using acoustical energy in civil engineering. p. 183.
Inspection of civil engineering works during their execution. p. 189.

Vol. 4, no. 9, Sept. 1954.
MÉLYEPITESTUDOMÁNYI SZEMLE
Budapest

SOURCE: Monthly list of East European Accession, (EFAL), LC, Vol. 5,
No. 3, March, 1956

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"Obtaining caffeine from coffee by acoustical extraction." *Melmezesi Ipar*, Budapest,
Vol. 8, No. 4, Apr. 1954, p. 114.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

GREGUSS, P.,JR.

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Use of supersonics in the leather industry. p. 75

Vol. 5, No. 4, August, 1955 Budapest, Hungary RÖMÉS CIPTECHNIKA

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5
No. 3, March, 1956

Hungary/Acoustics - Ultrasonics, J-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35581

Author: Greguss, Pal

Institution: None

Title: Demonstration of the Use of Ultrasonics in Industry at the Leipzig Fair

Original
Periodical: Meres es automat., 1956, 4, No 5, 152-154

Abstract: None

Card 1/1

SECRET SOURCE

Category: Poland

B- 10

Abs Jour: Zh--Kh, No 3, 1957, 7632

Author : Greguss, P., Jr.

Inst : Not given

Title : Dehydrogenation and Cyclization of Paraffin Compounds Under
the Action of Sound Waves

Orig Pub: Przem. Chem., 1956, Vol 12, No 4, 226-229 (published in Polish
with summaries in Russian and English)

Abstract: The effect of sound waves on the dehydrogenation and cyclization
of paraffin compounds has been established (spectroscopic and
electron microscopic investigation, determination of octane num-
ber). The sound waves apparently act on the layer adjoining the
wall of the reactor. The mechanism of the reaction depends on
the physical and chemical properties of the reactor walls.

Card : 1/1

-3-

(REGHSS - P.)

✓ Dehydrocyclization by acoustic waves. P. Grószs, Jr.
(Central Inst. Phys. Research, Budapest, Hungary). *Polymer Chem.* 35, 221-9 (1986). Paraffins were refluxed in an
app. that had a source of acoustic waves at the end of the
redund condenser. This treatment led to a simultaneous
dehydrogenation and cyclization of the paraffins, as could
be found by investigating the final products spectroscopically,
electron-microscopically, and by a detn. of their octane
values. It is assumed that the reactions observed actually
take place anyhow at the walls of the vessel, which catalyze
them; the acoustic waves act upon the boundary layers,
thus furnishing more energy, and the catalytic processes
may occur more easily. On changing the reactor material
for one that has other chem. and phys. properties, the final
products obtained from the same paraffin, are quite different.
Werner Jacobson

JW

✓

4
2 May

JG

86353
S/046/60/006/004/001/022
B019/B056

24.1800

AUTHORS: Gregush, A., Gregush, P.

TITLE: The Effect of Ultrasonics Upon the Catalytic Properties of MnO₂ Gels and Suspensions

PERIODICAL: Akusticheskiy zhurnal, 1960, Vol. 6, No. 4, pp. 441 - 445

TEXT: In the experiments carried out here, the authors used a barium titanate emitter, which operated with a natural frequency of 875 kc/sec. The intensity in the focus was about 150 watt/cm². An investigation was made of the effect of MnO₂ suspensions and gels upon the decay of H₂O₂ in an irradiation with an intense ultrasonics. The MnO₂ concentration was such that exactly 50 cm³ of oxygen were formed from 20 cm³ H₂O₂ at 25°C. The decay rate of H₂O₂ was measured by means of an experimental system consisting of a piston with the catalyst, a water tank, a H₂O₂ container, a mixing motor, a mixer with a mercury seal, a gas burette, and a thermostat.

Card 1/3

The Effect of Ultrasonics Upon the Catalytic Properties of MnO₂ Gels and Suspensions 86352
S/046/60/006/004/001/022
B019/B056

From the results obtained the authors recognized that in ultrasonic irradiation, the decay of H₂O₂ is more intense initially than without irradiation, but this intensity becomes weaker later, and the decay of the entire H₂O₂ in all cases takes the same time. It further follows from the results obtained that the decay rate has an upper limit, which is caused either by specific sound-induced chemical reactions or which is a colloidal effect. If ΔV is understood to stand for the difference between the oxygen volume formed under the effect of ultrasonics and the oxygen volume formed without ultrasonics, the experimental data for the suspension may be well described by $\Delta V = A_1 t^{b_1} e^{-0.233t}$ and for gel by $\Delta V = A_2 t^{b_2} e^{-0.533t}$. The course taken by these curves has considerable similarity with that of adsorption curves. As further concluded by the authors, the change in the catalyst effect of the MnO₂ gels and suspensions is due to a coagulating effect of ultrasonics. The authors thank Professor A. Buzagh for raising the problem and Docent Volfram for his assistance. There are 7 figures and 4 references: 2 Soviet, 1 Hungarian, and 1 German.

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Card 2/3

86352

The Effect of Ultrasonics Upon the Catalytic S/046/60/006/004/001/022
Properties of MnO₂ Gels and Suspensions B019/B056

ASSOCIATION: Laboratoriya ul'trazvuka Instituta zh.-d. transporta
Budapest (Laboratory of Ultrasonics of the Institute of Rail-
road Engineers, Budapest)

SUBMITTED: February 10, 1960

✓

Card 3/3

WEISZBURG, J.; GREGUSS, P.Jr.

The effect of ultrasonic irradiation on electroluminescent panels.
Acta phys Hung 11 no.2:185-191 '60. (EEAI 9:10)

l. Industrial Research Institute for Telecommunication Technique
and RSRI Ultrasonic Research Laboratory, Budapest. Presented by
G.Szigeti.

(Ultrasonics)
(Luminescence)